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1) PRODUCT IDENTIFICATION

Product: ME8452-A **Product Type:** PRIMA-SOLDER
Product Description: Stress free, 100% Solid, Reworkable, Electrically conductive, Epoxy paste adhesive.
Recommendation On Use: Large area die, Snap curing. **General Use:** Automated assemblies, Mismatched CTE's. **Restriction On Use:** Intended for designated use only.

2) HAZARD IDENTIFICATION

WHMIS Classification: D2B Toxic material causing other effects. Slight skin irritant.
GHS Classification: Skin irritation (Category 2)
Signal Word: Warning



GHS Label elements: H315 Skin irritation. P280 Wear protective gloves, eye and face protection.
Precautionary Statement: For industrial use only **Physical Appearance:** Silver Paste **Immediate Concerns:** Avoid contact with skin and eyes.
Primary Route Entry: Skin **Medical Conditions Aggravated:** Skin contact may aggravate an existing dermatitis (skin condition)

Potential Health Effects:
Eyes: Not a route of exposure under normal use **Skin:** Adverse symptoms may include irritation and redness **Ingestion:** Harmful if swallowed. May cause naseau, vomiting, abdominal pain, decreased blood pressure, muscle weakness and spasms. **Inhalation:** Can cause irritation in throat and lungs

Signs and Symptoms of Overexposure:

Eyes: None under normal use **Skin:** Burns on the skin **Ingestion:** Causes burning of mouth, throat and stomach with abdominal and chest pain ,nausea, vomiting **Inhalation:** Respiratory tract irritation which can cause damage

Acute Toxicity: Can cause vomiting and irritation of the throat and stomach **Chronic Exposure:** Seek medical attention if any symptoms occur. **Carcinogenicity:** Not classifiable as a carcinogen **Mutagenicity:** Not Determined
Reproductive Effects: Not known to cause any reproductive effects **Teratogenic Effects:** Not Determined. **Target Organ Stament:** Not Determined **Sensitization:** May cause sensitization

3) COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL:	CAS NO	%
Silver	7440-22-4	65-85
Epoxy Resin	25085-99-8	35-15

NOTE: * For powders only; in adhesive product, powders are bound in adhesive and values are not applicable.

4) FIRST AID MEASURES

First Aid Eye: Immediately flush eyes with eyewash solution or clean water holding the eyelids apart for 15 minutes. If symptoms develop, seek medical attention. **First Aid Skin:** Wash with soap and water. If symptoms develop, seek medical attention. **First Aid Inhale:** Move to fresh air and keep at rest. Seek medical attention if symptoms develop
First Aid Ingest: If swallowed, do not induce vomiting. Keep person resting and seek medical attention. **Physician Note:** No specific treatment. Treat symptomatically. **Acute Symptoms:** Seek medical treatment
Delayed Symptoms: Seek medical treatment

5) FIRE FIGHTING MEASURES

Flammable Class: 1 **Flame Propagation or Burning Rate of Solids:** Not Determined.
General Hazard: Toxic fumes may be evolved when this material is involved in a fire.
Extinguish Media: Sodium Bicarbonate and water
Hazardous Combustion Products: Carbon monoxide, oxides of nitogen, formaldehyde, cyanide
Fire Fighting Procedures: Use self-contained breathing apparatus; decomposition and combustion products may be toxic. **Unsuitable Firefighting Equipment:** Self-contained breathing apparatus should be available for fire fighters.
Suitable Firefighting Equipment: Not determined

Sensitive to Static Discharge no

Sensitive to Impact: no

6) ACCIDENTAL RELEASE MEASURES

- Small Spill:** Cover with sand and place in waste containers for disposal
- Large Spill:** Contain spill and place in waste containers for proper disposal
- Water Spill:** Contain spill and use correct equipment to remove from water
- Land Spill:** Contain spill and place in waste containers for proper disposal

General Procedures:

Use the necessary tools and protective equipment for the situation.

Release Notes:

Not Determined

7) HANDLING AND STORAGE

Handling:

Use latex gloves and safety glasses. Use at ambient temperature

Storage:

-40C

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE Eye and Face: Use protective glasses or goggles.

PPE Skin: Latex Gloves and Lab Coat.

Engineering Controls:

PPE Respiratory: Not normally required.

PPE Ventilation: Use well ventilated hood when heating materials

PPE Other: Personal protective equipment should be worn based on the task being performed

Work Hygienic Practices: Use well ventilated hood when heating materials

OSHA PEL

0.01 mg/m³*

ACGIH TLV

0.1 mg/m³*

EINECS

None Established

None Established

9) PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint and Method: Not Determined

Upper Flammable Limits: Not Determined

Autoignition Temperature: Not Determined

Color: Silver

Vapor Pressure: Not Determined.

Vapor Density: Not Determined

Boiling Point: Not Determined

Melting Point: Not determined

Evaporation Rate: Not tested

Specific Gravity: 3.3

Molecular Weight: Not Determined.

Appearance: Silver paste

Lower Flammable Limits: Not Determined

Physical State: Paste

Odor: Slight chemical odor

Odor Threshold: Not Determined

pH: Not Determined

Freezing Point: Not Determined

Solubility in Water: None

Density: 3.5

Viscosity: 255,000 cp

Coeff. Oil/Water: Not Determined.

10) STABILITY AND REACTIVITY

Hazardous Polymerization: May occur

Chemical Stability: Stable under normal handling and storage condition

Polymerization: Hazardous polymerization may occur.

Conditions to Avoid: Excessive heat. Do not store near heat or flame.

Hazardous Decomposition Products:

Thermal degradation could produce carbon monoxide, carbon dioxide and unidentified organic compounds.

Incompatibility Materials:

Acid base chemicals

11) TOXICOLOGICAL INFORMATION

Acute:

Eyes: Stable **Dermal LD50:** Slightly irritating **Oral LD50:** Not Determined **Inhalation LC50:** Not Determined

Eye Effects: Not determined

Skin Effects: Minor irritation

Carcinogenicity:

IARC: Not Determined **NTP:** Not Determined

OSHA: None established

Sensitization: May cause sensitization by skin contact

Reproductive Effects: Not Determined

TARGET ORGANS:

Eyes: Not determined **Skin:** Irriting, may cause rash **Gastrointestinal:** Not Determined **Respiratory System:** Not Determined

Teratogenic Effects: May cause sensitization by skin contact

Mutagenicity: Not Determined

12) ECOLOGICAL INFORMATION

Ecotoxicity: No known significant effects or critical hazards

Mobility in Soil: Not Determined

Persistence and Degradability: Not Determined

Bioaccumulative Potential: No known significant effects or critical hazards

13) DISPOSAL CONSIDERATIONS

Disposal Method: Cure at 150C and dispose of according to rules and regulations

For Large Spills: Contain spill and use proper container and protective equipment to clean up spill

Product Disposal: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

Empty Container: Disposal of empty container should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

14) TRANSPORT INFORMATION**Road and Rail (ADR/RID)**

Transport Information:

Not Regulated

Kemler Number:

N/A

Hazard Class:

Irritant

Air (CIAO/IATA)

Shipping Name: Not Regulated

Technical Name: N.A.

UN Number: N.A.

Primary Hazard Class: N.A.

Packing Group: N.A.

Label: N.A.

Vessel (IMO/IMDG)

Shipping Name: Not Regulated

Technical Name: N.A.

UN Shipping Name: N.A.

Primary Hazard Class: N.A.

Packing Group: N.A.

Label: N.A.

15) REGULATORY INFORMATION

TCSA: This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory. **Skin:** Not determined

Gastrointestinal: Not Determined

Respiratory System: Not Determined

16) OTHER INFORMATION

HMIS Health Rating (1-4): 1

HMIS Flammability Rating (1-4): 1

HMIS Physical Hazard Rating (1-4): 0

Long Term Health Effects (Y/N): N

Note: All ingredients in this product are on the Toxic Substances Control Act (TSCA) inventory or are not required to be listed.
No ingredient in this product is known to be carcinogenic.
Ingredients listed on the New Jersey "RIGHT TO KNOW" Substance list: Silver CAS#7440-22-4 Substance#1669
This product is compliant to RoHS & REACH and does not contain any Substances of Very High Concern

Section X:

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